Workshop on Mitochondria, Energetics, Epigenetics, Environment, and DNA Damage Response

March 25, 2013
NIEHS, Building 101, Rodbell Auditorium

8:00 a.m.	**Opening – Rick Woychik**, NIEHS Deputy Director
8:10 a.m.	**Introduction – Frederick Tyson**, Division of Extramural Research and Training, NIEHS
8:15 a.m.	**Session 1: Role of mitochondria metabolism and energetics in epigenetic regulation**
	Overview: mitochondria as a target of environmental toxicants **Joel Meyer**, Duke University
8:45 a.m.	Epigenomics, sirtuins, and energetics **Raul Mostoslavsky**, Massachusetts General Hospital
9:15 a.m.	Mitochondrial metabolism and redox regulation of epigenetic processes **Frederick Domann**, University of Iowa
9:45 a.m.	Metaboloepigenetics: interrelationships between energy metabolism and epigenetic regulation of gene expression **Scott Bultman**, University of North Carolina at Chapel Hill
10:15 a.m.	Break
10:30 a.m.	Mitochondrial genetics and epigenetics: A novel path linking air pollution to human disease **Andrea Baccarelli**, Harvard University
11:00 a.m.	Discussion
11:20 a.m.	**Session 2: Energetics and DNA damage response**
	The effect of mitochondrial damage and dynamics on cellular bioenergetics, mitosis, and cellular physiology **Bennett Van Houten**, University of Pittsburgh
11:50 a.m.	Nutrient stress and selective autophagy regulate the DNA damage response **Thomas Begley**, College of Nanoscale Science and Engineering, University at Albany – SUNY
12:20 p.m.	Lunch
1:30 p.m.	ATM: A connection between DNA damage signaling and mitochondrial function **Michael Kastan**, Duke University
2:00 p.m.	PARP, bioenergetics, and base excision repair **Robert Sobol**, University of Pittsburgh
2:30 p.m.	Break
2:45 p.m.	Discussion
3:05 p.m.	**Session 3: Incorporating systems biology in energetics and stress response**
	Integrated 'omics uncovers mitochondrial metabolism and stress response **Matthew Hirschey**, Duke University
3:35 p.m.	Genetic networks dissect cross-talk among DNA damage response pathways **Trey Ideker**, University of California, San Diego
4:05 p.m.	Tox21 screening for mitochondrial toxicity **Michael DeVito**, National Toxicology Program, NIEHS
4:35 p.m.	Discussion
5:00 p.m.	Adjourn